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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): TURPEN, et al.

Serial No.: 10/602,220

Filed: 6/23/2003

Title: Production of Lysosomal Enzymes in  
Plants by Transient Expression

Attorney Docket No.: LSBC-0087-CP07B

Group Art Unit: 1652

Examiner: RAMIREZ, Delia M.

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

This Information Disclosure Statement is submitted under 37 CFR 1.97(b) (before mailing date of first office action on the merits).

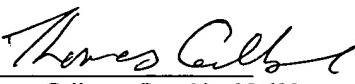
Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

The relevance of the attached references is that this is the closest art of which Applicant is aware. Applicant submits that the above references taken alone or in combination neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to this application is respectfully requested.

It is requested that the information disclosed herein be made of record in this application.

I hereby certify that this Correspondence is being deposited with the United States Postal service with sufficient postage for first class mail in an envelope address to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Date: 17 Sept 2004

  
Thomas Gallegos, Reg. No. 32,692

Respectfully submitted,

  
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Thomas Gallegos, Reg. No. 32,692  
Attorney for Applicant(s)  
Large Scale Biology Corporation

Date: 15 Sept 2004

Telephone No.: (707) 469-2307

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Substitute for form 1449A/PTO		<i>Complete if Known</i>	
<b>O I P E INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>SEP 17 2004</i> <i>Use as many sheets as necessary)</i>		Application Number	10/602,220
		Filing Date	6/23/2003
		First Named Inventor	TURPEN et al.
		Art Unit	1652
		Examiner Name	RAMIREZ, Delia M.
1	of	5	Attorney Docket Number
		LSBC-0087-CP07B	

## **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

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				Group Art Unit	1652
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Sheet	2	of	5	Attorney Docket Number	LSBC-0087-CP07B

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		<sup>2</sup>
		BORK, "Powers and Pitfalls in Sequence Analysis: The 70% Hurdle", <i>Genome Research</i> (2000) 10:398-400		
		BOWIE, et al., "Diciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions", <i>Science</i> (1990) 247:1306-1310		
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		FRANK, et al., "Automation of DNA Sequencing Reactions and Related Techniques: A Workstation for Micromanipulation of Liquids", <i>Biotechnology</i> , (1988) 6:1211		
		FURBISH, et al., "Enzyme replacement therapy in Gaucher's disease: Large-scale purification of glucocerebrosidase suitable for human administration", <i>Proc. Natl. Acad. Sci.</i> , (1977) 71(8):3560-3563		
		FURBISH, et al., "Uptake and Distribution of Placental Glucocerebrosidase in at Hepatic Cells and Effects of Sequential Deglycosylation", <i>Biochimica et biophysica Acta.</i> , (1981) 673:425-434		

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		GRABOWSKI, et al., "Expression of Functional Human Acid $\beta$ -glucosidase in COS-1 and <i>Sporodoptera frugiperda</i> Cells", <i>Enzyme</i> , (1989) 41:131-142	
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		MIYAMURA, et al., "A Carboxy-terminal Truncation of Human $\alpha$ -Galactosidase A in a Heterozygous Female with Fabry Disease and Modification of the Enzymatic Activity by the Carboxy-terminal Domain", <i>J. Clin. Invest.</i> , (1996) 98(8):1809-1817	
		MURRAY, et al., "Production of Recombinant Human Glucocerebrosidase in Plants", <i>Fed. of American Soc. for Experimental Biology</i> , (1996) 10(6):a1126	
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		SCHATZLE, et al., "Molecular Cloning and Characterization of the Structural Gene Coding for the Developmentally Regulated Lysosomal Enzyme, $\alpha$ -Mannosidase, in <i>Dictyostelium discoideum</i> , <i>J. Bio. Chem.</i> (1991) 267(6):4000-4007	
		SCHULZ and SCHIRMER, "Principles of Protein Structure", (1979) pp. 14-16, Springer-Verlag, eds.	
		SCOTT, et al., "Structure and Sequence of the Human $\alpha$ -L-Iduronidase Gene", <i>Genomics</i> , (1992) 13:1311-1313	
		SCOTT, et al., "Human $\alpha$ -L-iduronidase: cDNA isolation and expression", <i>Proc. Natl. Acad. Sci. USA</i> , (1991) 88:9695-9699	
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		SORGE, et al., "Molecular cloning and nucleotide sequence of human glucocerebrosidase cDNA", <i>Proc. Natl. Acad. Sci. USA</i> , (1985) 82:7289-7293	
		TAKAMATSU, et al., "Expression of bacterial chloramphenicol acetyltransferase gene in tobacco plants mediated by TMV-RNA", <i>EMBO J.</i> , (1987) 6(2):307-311	
		THORNBURG, et al., "Wound-inducible expression of a potato inhibitor II-chloramphenicol acetyltransferase gene fusion in transgenic tobacco plants", <i>Proc. Natl. Acad. Sci.</i> (1987) 84:744-748	
		TSUJI, et al., "Nucleotide Sequence of cDNA Containing the Complete Coding Sequence for Human Lysosomal Glucocerebrosidase", <i>J. Bio. Chem.</i> (1986) 261(1):50-53	
		VANDEKERCKHOVE, et al., "Enkephalins Produced in Transgenic Plants Using Modified 2S Seed Storage Proteins", <i>Biotechnology</i> , (1989) 7:929-933	
		VIERSTRA, "Protein Degradation in Plants", <i>Annual Review of Plant Physiology and Plant Molecular Biology</i> (1993) 44:385-410, Annual Reviews, Inc., Palo Alto, California	
		VON FIGURA and HASILIK, "Lysosomal Enzymes and Their Receptors", <i>Ann. Rev. Biochem.</i> , (1986) 55:167-193	

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